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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6					
2009	9CEXH0408BA	6.7	Diesel	Diesel	CLASS MHDD	DDI, TC, CAC, ECM, EGR, OC, PTOX						
	NS CONTROL 3		AD	DITIONAL IDLE EM	ISSIONS CON							
ENCINE (-		N/								
ENGINE (<u> </u>		ENGINE MO	DELS / CODES (rat	ed power, in l	hp)						
6.7		See attachment for engine models and ratings										
*												
*		•										
CNG/LN L/M/H H ECS=en up catalyst; TBI=throttle super charg control modi ESS=en per 13 CCF	IG=compressed/liquefied IDD=light/medium/heavy I nission control system; T DPF=diesel particulate fi body fuel injection; SFI/ler: CAC=charge air coolude; EM=engine modifica gine shutdown system (px R 1956.8(a)(b); Exem	natural gas; LPG=liquefi neavy-duty diesef; UB=ur WC/OC=three-way/oxidiz Iter, PTOX=periodic trap MFI=saquential/multi port er; EGR / EGR-C=exhau- tion; 2 (prefix)=perallei; er 13 CCR 1956.8(a)(6); pt=exempted per 13 CCR	ed petroleum gas; E85=85% e ban bus; HDQ=heavy duty Ot ng catalyst; NAC=NOx adsort oxidizer; HO25/023=heaten; Del-direct gast st gas recirculation / cooled EG (2) (suffix)=in series; NOX (nax 4)	thanol fuel; MF=multi to; btion catalyst; SCR-U bxygen sensor; HAFS, line Injection; GCARB R; PAIR/AIR=pulsed/ cCCR 1958.(a)(5)(C); IG fuel systems; M/45	fuel a.k.a. BF= / SCR-N=select /AFS=healed/ai =gaseous carb secondary air in	t 86.abc=Title 40, Code of Federal Regulations bi fuel; DF=dual fuel; FF=flexible fuel; live catalytic reduction — urea / — ammonia; Wiir-fuel-ratio sensor (a.k.a., universal or linear oxuretor; IDI/DDI=indirect/direct diesel injection; jection; SPL=smoke puff limiter; ECM/PCM=a combustion auxiliary power system; ALT=alte (e.g., Otto engines and vehicles);	U (prefix) ≕warm- kygen sansor); TC/SC=turbo/ engine/powertrain					

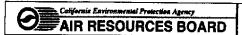
Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duy diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in

NMHC		NOx		NMHC+NOx		co		PM		нсно	
FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	FURO		EURO
0.14	0.14	*	*	*	*	15.5				111	EURO
*	*	1.95	1.95	1.9	1.9	*	*	0.01	0.01	*	
0.00	0.00	1.61				0.01	0.00	0.001	0.000		
0.2	21	2.									<u> </u>
_	* 0.00 0.2	0.14 0.14	0.14 0.14 * * * 1.95 0.00 0.00 1.61 0.21 2.	0.14 0.14 * * * * 1.95 1.95 0.00 0.00 1.61 1.79 0.21 2.44	0.14 0.14 * * * * * 1.95 1.95 1.9 0.00 0.00 1.61 1.79 1.6 0.21 2.44 2.	0.14 0.14 * </td <td>0.14 0.14 * * * * * 15.5 * * 1.95 1.95 1.9 1.9 * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.21 2.44 2.4 15</td> <td>0.14 0.14 * * * * * 15.5 15.5 * * 1.95 1.95 1.9 1.9 * * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.00 0.21 2.44 2.4 19.4</td> <td>0.14 0.14 * * * * 15.5 15.5 0.01 * * 1.95 1.95 1.9 1.9 * * * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.00 0.001 0.21 2.44 2.4 19.4 0.</td> <td>0.14 0.14 * * * * 15.5 15.5 0.01 0.01 * * 1.95 1.95 1.9 1.9 * * * * * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.00 0.001 0.000 0.21 2.44 2.4 19.4 0.02</td> <td>FTP EURO FTP EURO FT</td>	0.14 0.14 * * * * * 15.5 * * 1.95 1.95 1.9 1.9 * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.21 2.44 2.4 15	0.14 0.14 * * * * * 15.5 15.5 * * 1.95 1.95 1.9 1.9 * * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.00 0.21 2.44 2.4 19.4	0.14 0.14 * * * * 15.5 15.5 0.01 * * 1.95 1.95 1.9 1.9 * * * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.00 0.001 0.21 2.44 2.4 19.4 0.	0.14 0.14 * * * * 15.5 15.5 0.01 0.01 * * 1.95 1.95 1.9 1.9 * * * * * 0.00 0.00 1.61 1.79 1.6 1.8 0.01 0.00 0.001 0.000 0.21 2.44 2.4 19.4 0.02	FTP EURO FT

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.



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BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of February 2009.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

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Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torqu	9.Emission Control PDevice Per SAE J1930
9CEXH0408BAC	1388;FR91662	ISB 350/PX6	350@2522	156	133	750@1800	151	92	/Рутох, РСМ,
9CEXH0408BAC	1388;FR91661	ISB 340/PX6	340@2743	149	138	660@1600	133	72	PTOX, POM,
9CEXH0408BAC	1388;FR91660	ISB 325/PX6	325@2500	149	126	750@1800	152	92	PTOX, PCM,
9CEXH0408BAC	0279:FR91659	ISB 300/PX6	300@2564	138	119	620@1600	126	68	РТОХ, РСМ,
9CEXH0408BAC	0279;FR91658	ISB 280/PX6	280@2500	132 .	111	660@1600	133	72	РТФХ/РСМ,
9CEXH0408BAC	0279;FR91657	ISB 260/PX6	260@2500	123	104	620@1600	126	68	PTOX, PCM,
9CEXH0408BAC	0279;FR91666	ISB 240/PX6	240@2500	115	97 -	620@1600	126	68	PTOK, PCM,
9CEXH0408BAC	0914;FR92012	ISB 280/PX6	280@2500	132	111	660@1600	133	72	PTOX PCM,
9CEXH0408BAC	0914;FR92011	IŞB 260/PX6	260@2500	123	104	620@1600	126	68	РТОХ,\РСМ,
9CEXH0408BAC	0914;FR92167	ISB 240/PX6	240@2500	115	97	620@1600	126	68	PTOX, PCM,
9CEXH0408BAC	0914;FR92021	ISB 240/PX6	240@2500	115	97	540@1600	113	61	PTOX, PCM,
9CEXH0408BAC	0279;FR92020	ISB 240/PX6	240@2500	115	· 97	560@1600	113	61 /	PTOX, POM,
9CEXH0408BAC	0279;FR91656	ISB 220/PX6	220@2500	107	90	520@1600	106	57	PTOX, PCM,
9CEXH0408BAC	0279;FR91655	ISB 200/PX6	200@2400	103	83	520@1600	106	57	PTOX, PCM,

(PXG=PACCAR model)

DDI, TC, CAC, ECM, EGR, OC, PTOX